

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L1    | 0    | (lactone adj polyol) near (caprolactone and valerolactone)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/01 08:34 |
| L2    | 6    | polyol near (caprolactone and valerolactone)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/01 08:34 |
| L6    | 2    | (caprolactone adj valerolactone) with (molar ratio)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/01 09:11 |
| L7    | 18   | "3592877" and viscosity   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/01 09:22 |
| L8    | 1    | "3592877" and viscosity and glycol and foam                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/01 09:25 |
| L9    | 2    | "20030148126"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/10/01 09:40 |
| L10   | 1    | EP and "1857484"  | DERWENT  | OR               | ON      | 2008/10/01 09:46 |
| L11   | 1    | DE and "10158491"   | DERWENT  | OR               | ON      | 2008/10/01 09:57 |
| L12   | 124  | lactone with viscosity  | DERWENT  | OR               | ON      | 2008/10/01 10:17 |
| L13   | 89   | l12 and @pd<="20031015"   | DERWENT  | OR               | ON      | 2008/10/01 10:17 |
| L14   | 0    | ((soft adj polyurethane adj foam) near viscosity) and @pd<="20031015" | DERWENT  | OR               | ON      | 2008/10/01 10:44 |

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|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| L15 | 0    | ((soft adj polyurethane adj foam) near viscosity)     | DERWENT  | OR | ON | 2008/10/01 10:45 |
| L16 | 36   | (soft adj polyurethane adj foam) and viscosity        | DERWENT  | OR | ON | 2008/10/01 10:45 |
| L17 | 29   | l16 and @pd<="20031015"                               | DERWENT  | OR | ON | 2008/10/01 10:45 |
| L18 | 0    | l17 and lactone                                       | DERWENT  | OR | ON | 2008/10/01 10:48 |
| L19 | 1    | 1998-563333   | DERWENT  | OR | ON | 2008/10/01 11:39 |
| L20 | 29   | l16 and @pd<="20031015"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/10/01 11:39 |
| L21 | 0    | l20 and lactone                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/10/01 11:39 |
| L22 | 288  | lactone same viscosity                                | DERWENT  | OR | ON | 2008/10/01 12:05 |
| L23 | 190  | l22 and @pd<="20031015"                               | DERWENT  | OR | ON | 2008/10/01 12:06 |
| L24 | 124  | lactone with viscosity                                | DERWENT  | OR | ON | 2008/10/01 12:18 |
| L25 | 89   | l24 and @pd<="20031015"                               | DERWENT  | OR | ON | 2008/10/01 12:18 |
| L26 | 0    | lactone near (liquid adj at adj room adj temperature) | DERWENT  | OR | ON | 2008/10/01 12:24 |
| L27 | 3    | (liquid adj at adj room adj temperature)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/10/01 12:25 |
| L28 | 0    | (liquid adj at adj room adj temperature) and lactone  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/10/01 12:25 |
| L29 | 1863 | (liquid near (room adj temperature)) and lactone      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/10/01 12:25 |
| L30 | 1863 | (liquid near(room adj temperature)) and lactone       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2008/10/01 12:26 |

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|     |       |  |  |    |     |                  |
|-----|-------|--|--|----|-----|------------------|
| L31 | 29    | (liquid near(room adj temperature)) with lactone   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT             | OR | ON  | 2008/10/01 12:26 |
| S1  | 0     | ("USand10575620").PN.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2008/09/25 09:13 |
| S2  | 1     | US and "10575620"  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2008/09/25 09:20 |
| S3  | 931   | 521/172.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2008/09/25 09:24 |
| S4  | 23    | US-4551518-\$.DID. OR US-6509409-\$.DID. OR JP-2003292560-\$.DID. OR JP-10152003-\$.DID. OR JP-1246644-\$.DID. OR JP-60197717-\$.DID. OR JP-10071985-\$.DID. OR JP-2002513669-\$.DID. OR JP-05142002-\$.DID. OR WO-9956864-\$.DID. OR JP-49109104-\$.DID. OR JP-10171974-\$.DID. OR JP-02021993-\$.DID. OR JP-1025327-\$.DID. OR JP-01271998-\$.DID. OR JP-2255818-\$.DID. OR JP-10161990-\$.DID. OR JP-10041995-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/25 09:24 |
| S5  | 6     | ((SHUSO) near2 (IYOSHI)).INV.  | US-PGPUB;<br>USPAT   | OR | ON  | 2008/09/29 15:39 |
| S6  | 9     | ((SHUSO) near2 (IYOSHI)).INV.  | EPO; JPO;<br>DERWENT   | OR | ON  | 2008/09/29 15:39 |
| S7  | 90    | ((NOBUYUKI) near2 (WATANABE)).INV.   | US-PGPUB;<br>USPAT   | OR | ON  | 2008/09/29 15:40 |
| S8  | 423   | ((NOBUYUKI) near2 (WATANABE)).INV.   | EPO; JPO;<br>DERWENT   | OR | ON  | 2008/09/29 15:40 |
| S9  | 13748 | lactone and polyurethane   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/29 15:51 |

## EAST Search History

|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S10 | 3867 | S9 and foam   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 15:51 |
| S11 | 447  | S10 and (water near (blowing adj agent))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 15:51 |
| S12 | 347  | S11 and @pd<="20031015"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 15:53 |
| S13 | 185  | S12 and (KOH or (potassium adj hydroxide))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 15:58 |
| S14 | 32   | "4331555"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 16:01 |
| S15 | 15   | "4331555" AND (KOH OR (POTASSIUM ADJ HYDROXIDE))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 16:02 |
| S16 | 7    | (caprolactone and valerolactone) and (polyurethane adj foam) and (water near (blowing adj agent)) and @pd<="20031015" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 16:34 |

## EAST Search History

|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S17 | 1312 | S10 and (KOH or (potassium adj hydroxide))                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 16:39 |
| S18 | 2    | S16 and (KOH or (potassium adj hydroxide))                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 16:39 |
| S19 | 341  | polyester and lactone and (caprolactone near valerolactone) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:01 |
| S20 | 41   | S19 and @pd<="20031015" and foam                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:02 |
| S21 | 0    | ".epsilon.-caprolactone"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:03 |
| S22 | 248  | (lactone adj polyol) and @pd<="20031015"                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:08 |
| S23 | 58   | S22 and (ring adj opening)                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:09 |

## EAST Search History

|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S24 | 893  | (lactone and polyol) and @pd<="20031015" and (polyurethane adj foam)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:12 |
| S25 | 46   | (lactone and polyol) and @pd<="20031015" and (polyurethane adj foam) and caprolactone and valerolactone | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:13 |
| S26 | 2    | "20030104241"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:20 |
| S27 | 0    | "20030104241" and viscosity   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/29 17:20 |
| S28 | 0    | (molar adj ratio) near ((caprolactone near valerolactone))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 07:54 |
| S29 | 1    | (molar adj ratio) near (caprolactone and valerolactone)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 07:55 |
| S30 | 1322 | (molar adj ratio) and caprolactone and valerolactone  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 07:56 |

## EAST Search History

|     |     |  |  |    |    |                  |
|-----|-----|--|--|----|----|------------------|
| S31 | 737 | S30 and @pd<="20031015"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 07:56 |
| S32 | 154 | S31 and foam   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 07:57 |
| S33 | 116 | (molar adj ratio) near (caprolactone or valerolactone) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 08:07 |
| S34 | 62  | S33 and @pd<="20031015"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 08:07 |
| S35 | 4   | polyester near (caprolactone and valerolactone)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 14:37 |
| S36 | 0   | copolymerization near (caprolactone adj valerolactone) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 14:58 |
| S37 | 1   | polymerization near (caprolactone adj valerolactone)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 15:55 |

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|     |     |                                  |  |    |    |                  |
|-----|-----|----------------------------------|--|----|----|------------------|
| S38 | 335 | (caprolactone adj valerolactone) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 15:55 |
| S39 | 150 | S38 and @pd<="20031015"          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 15:55 |
| S40 | 37  | S39 and (molar adj ratio)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30 15:56 |